

Title (en)  
HYBRID CIRCUIT

Publication  
**EP 0143616 A3 19860604 (EN)**

Application  
**EP 84308112 A 19841122**

Priority  
US 55597183 A 19831129

Abstract (en)  
[origin: EP0143616A2] A hybrid circuit (38) having high return loss and high transhybrid loss is disclosed. An operational amplifier (39) is employed in a feedback configuration. The receive port (30) of the hybrid circuit is applied to the non-inverting input of the amplifier while the center-tap of the secondary winding of the hybrid transformer is applied to the inverting input of the amplifier. Most noticeable is the omission of an impedance setting resistor at the output of the operational amplifier. The circuitry connected to the transmit port (29) and the two-wire bidirectional port (24) of the hybrid circuit are of conventional design.

IPC 1-7  
**H04B 3/03**

IPC 8 full level  
**H04B 1/58** (2006.01); **H04B 3/03** (2006.01)

CPC (source: EP US)  
**H04B 1/581** (2013.01 - EP US)

Citation (search report)

- [Y] DE 2952259 A1 19800717 - PLESSEY HANDEL INVESTMENT AG
- [Y] FR 2456430 A1 19801205 - PHILIPS NV [NL]
- [A] US 3818140 A 19740618 - GREEN N, et al

Cited by  
AU653659B2; EP0682435A3; EP0399408A3

Designated contracting state (EPC)  
AT DE FR GB NL SE

DOCDB simple family (publication)  
**EP 0143616 A2 19850605; EP 0143616 A3 19860604**; CA 1202382 A 19860325; JP S60137139 A 19850720; US 4595802 A 19860617

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**EP 84308112 A 19841122**; CA 449580 A 19840314; JP 24981084 A 19841128; US 55597183 A 19831129